SENNHEISER

SENNHEISER ELECTRONIC KG., D-3002 WEDEMARK

Bedienungsanleitung
User's Guide
Mode d'Emploi

Griff+Speisemodul
Handgrip/Powering module
Module
Poignée + Alimentation

K 30 AV

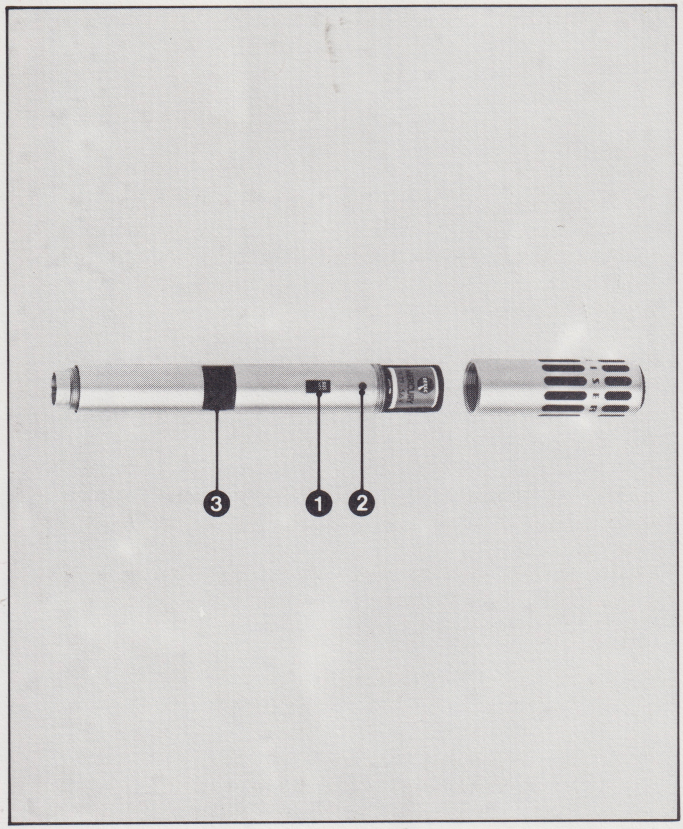
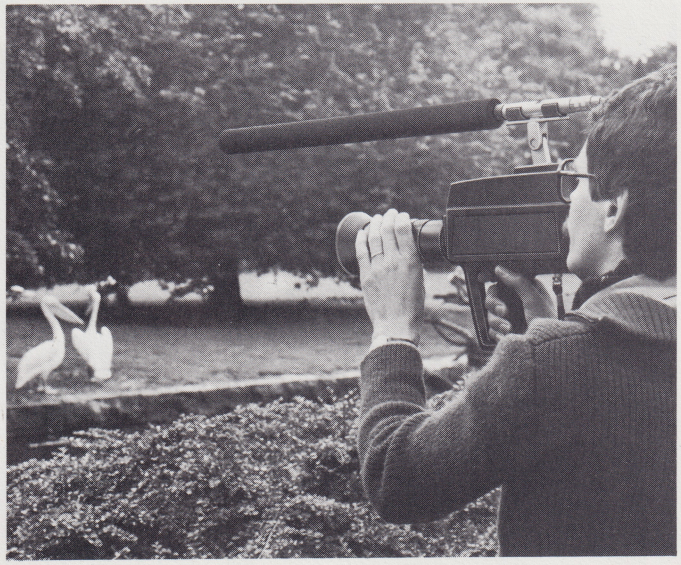


Bild Fig. 1



ME 88 + K 30 AV

Bild Fig. 2

Introduction

It has been always a problem making perfect sound recordings with a dynamic microphone when using a video-camera.
The reasons are the deflection fields produced by the camera. These deflections fields cause interferences at dynamic microphones or microphones with transformer.
To prevent the recording from being affected by this kind of interferences, the circuit of the newley developed handgrip/powering module K 30 AV has been designed without transformer. As new part ot the Telemike-modular-system the K 30 AV makes the advantages of this system also available for owners of video cameras.
What is the Telemike-System? By combining handgrip/powering module with different microphones heads, microphones with different directional characteristics can be built-up to suit different applications. The modular system, therefore provides the user with the microphone needed to start with and the possibility to extend the system by adding further microphone heads.

The following microphone heads are available:

Lavalier microphone MKE 10-3 (omnidirectional)
Microphone head ME 20 (omnidirectional)
Microphone head ME 40 (super cardioid)
Microphone head ME 80 (super cardioid / club shaped)
Microphone head ME 88 (cardioid / club shaped)

The K 30 AV is the powering module for the microphone heads. Powering module and microphone head are powered from a 5,6 V battery, or alternatively from an external power supply via the 8 pin connector.

Operation

On/Off-Switch and Battery Voltage Check

The condition of the battery is checked every time the microphone is switched on (red mark visible) or off. When switching on, LED (2) lights up indicating sufficient supply voltage (Fig. 1). If the LED becomes dim, the battery should be replaced. But there is still a reserve of appx. 20 h left, enough time to obtain a new battery. The normal operating time with one battery is appx. 600 h. New batteries are available at camera shops. When the K 30 AV is not in use it should be switched off to prevent unnecessary discharging of the battery.

Inserting the Battery

After the microphone head has been screwed off, the battery compartment is accessible. The 5,6 V battery (eg. Mallory PX 23, Varta 23 PX, Ucar EPX 23) is to be inserted according to the label in the compartment.
Proper connection and function are checked by switching the microphone on and off. When the LED lights up the battery has been inserted right. Microphone head and the handgrip/ powering module are then reassembled.

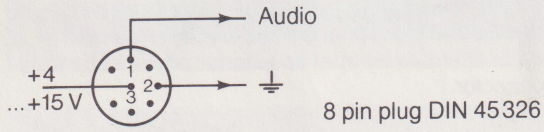
External Powering

The handgrip/powering module can be powered from external d. c. power supplies (+ 4 V . . . + 15 V) via pin 8 (middle contact) of the connector. In this case, it is not necessary to disconnect the battery.

Roll off Filter

For reduction of interfering noises like wind and handling noise, the K 30 AV features a switchable roll off filter with three switch positions (3). Position II causes a roll off of 7 dB and position III a roll off of 15 dB at 50 Hz. In position I the filter is switched off, ensuring a flat frequency response.
However, the roll off filter reduces not only interfering noise, but causes a roll off of the otherwise useable low frequency range. Therefore, the roll off filter should be used only if interfering noises can't be eliminated by means of other measures.
For outdoor recordings and close talking applications it is recommended to use a suitable windscreen (e.g. MZW 30, MZW 201, MZW 415) in order to effectively reduce avoidable interferences without using the roll off filter.

Connector wiring



8 pin plug DIN 45326

Pin	Audio signal	Power supply
1	Audio (+)	
2	Ground, housing	
8		+ 4 . . . + 15 V external

Mounting

The handgrip/powering modules are supplied with the quick release clamp MZG 104-1. This clamp enables mounting on tripods, desk stands etc. with $^3/_8$" thread. For optional accessories see chapter "Accessories".

Microphone Head MKE 10-3

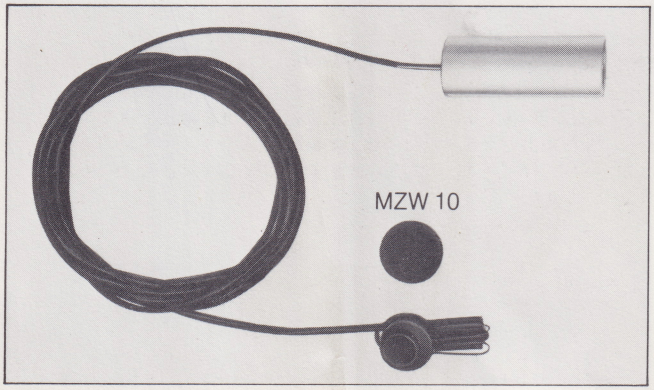
This clip-on microphone, which can be worn almost invisible at the clothing, is a good choice for recording speech.
The close and constant distance between mouth and microphone ensures exceptional good recording results. The microphone has an omnidirectional characteristic i.e. it will pick up sounds from all directions.
The effectiveness of the built-in pop and windscreen can be further improved by the extra included windscreen MZW 10.

Features:

Extremely small.
Built-in pop and windscreen.

Applications:

Interviews, commentary.



Technical Data

	MKE 10-3 and K 30 AV
Frequency response	50 . . . 15 000 Hz
Acoustical mode of operation	pressure transducer
Directional characteristic	omnidirectional
Sensitivity at 1000 Hz	2.5 mV/Pa ≙ 0.25 mV/µbar ± 2.5 dB
Impedance	appx. 600 Ω
Minimum load impedance	600 Ω
Weighted S/N ratio to DIN 45 590	> 60 dB
Connector	8-pin plug, screwable, to DIN 45 326
Wiring	1 → audio, 2 → housing (–) 8 → external power supply to DIN 45 594
Cable connector	8-pin coupling, screwable, to DIN 45 326
Power supply	+ 4 V . . . + 15 V via pin 8 or 5.6 V battery
Dimensions in mm	19/22 Ø x 186
Finish (microphone)	dull black
Weight	appx. 160 g

Microphone Head ME 20

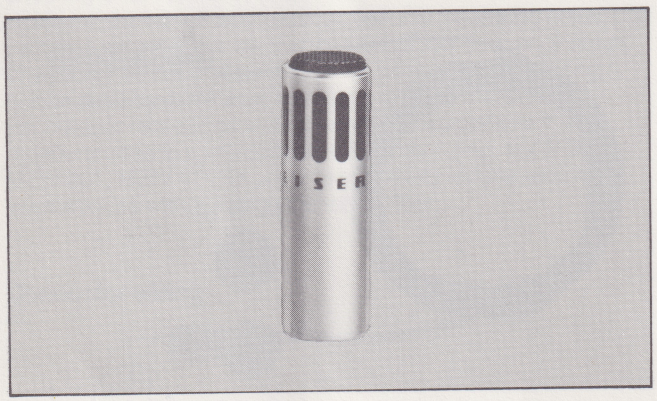
Together with the K 30 AV this microphone head represents a small table or handheld microphone which is a ideal choice for interviews, round table conversations or film dubbing. The omnidirectional characteristic and the high sensitivity makes recording more "live" and interesting because of the background noise level.

Features:

Insensitive to wind and handling noise.

Applications:

Interviews, reportages, discussions.



Technical Data

	ME 20 and K 30 AV
Frequency response	50 . . . 15 000 Hz
Acoustical mode of operation	pressure transducer
Directional characteristic	omnidirectional
Sensitivity at 1 kHz	5.5 mV/Pa ≙ 0.55 mV/µbar ± 2.5 dB
Impedance	appx. 600 Ω
Minimum load impedance	600 Ω
Weighted S/N ratio to DIN 45 590	> 66 dB
Connector	8 pin plug, screwable, to DIN 45 326
Wiring	1 → audio, 2 → housing (–), 8 → external power supply to DIN 45 594
Cable connector	8 pin coupling, screwable, to DIN 45 326
Power supply	+ 4 V . . . + 15 V via pin 8 or 5.6 V battery
Dimensions in mm	19/22 Ø x 186
Finish	satin nickel
Weight	appx. 160 g

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Microphone Head ME 40

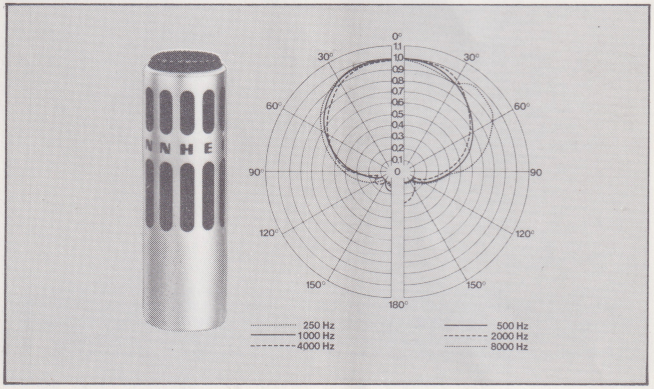
The super cardioid characteristic of this microphone head makes it suitable for recordings in acoustically unfavourable environments.
Environmental noise is effectively reduced, when the microphone is positioned in a way, that interfering noise hits the microphone from the rear. During interviews it will pick up the human voice more clearly out of a noisy environment.

Features:

Pronounced directional characteristic.

Applications:

Interviews, video film dubbing, reportages.



Technical Data

	ME 40 and K 30 AV
Frequency response	50 . . . 15 000 Hz
Acoustical mode of operation	Pressure gradient transducer
Directional characteristic	Super cardioid
Sensitivity at 1000 Hz	5.5 mV/Pa ≙ 0.55 mV/µbar ± 2.5 dB
Impedance	appx. 600 Ω
Minimum load impedance	600 Ω
Weighted S/N ratio to DIN 45 590	> 66 dB
Connector	8 pin plug, screwable, to DIN 45 326
Wiring	1 → audio, 2 → housing (–), 8 → external power supply to DIN 45 594
Cable connector	8 pin coupling, screwable, to DIN 45 326
Power supply	+ 4 V . . . + 15 V via pin 8 or 5.6 V battery
Dimensions in mm	19/22 Ø x 186
Finish	satin nickel
Weight	appx. 160 g

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Microphone Head ME 80

This microphone head combines the characteristics of a pressure gradient and interference receiver.
Its directional pattern for frequencies below 2000 Hz has the shape of a super cardioid pattern und becomes club-shaped for frequencies above 2000 Hz. This directional pattern eliminates interfering noise and guarantees good recordings even at larger distances. It should be used in situations where the directionality of the ME 40 isn't quite sufficient.

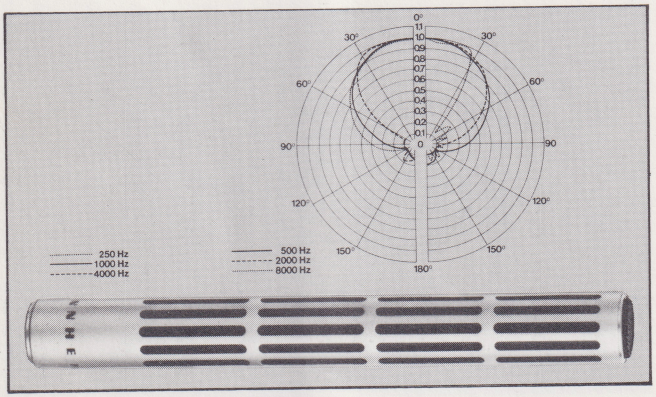
Features:

High directionality.

Applications:

Reportages, sports, film production.

LOW IMPEDANCE



Technical Data

	ME 80 and K 30 AV
Frequency response	50 . . . 15 000 Hz
Acoustical mode of operation	pressure gradient-interference transducer
Directional characteristic	super cardioid / club shaped
Sensitivity at 1 kHz	8 mV/Pa ≙ 0.8 mV/µbar ± 2.5 dB
Impedance	appx. 600 Ω
Minimum load impedance	600 Ω
Weighted S/N ratio to DIN 45 590	> 70 dB
Connector	8 pin plug, screwable, to DIN 45 326
Wiring	1 → audio, 2 → housing (–), 8 → external power supply to DIN 45 594
Cable connector	8 pin coupling, screwable, to DIN 45 326
Power supply	+ 4 V . . . + 15 V via pin 8 or 5.6 V battery
Dimensions in mm	19/22 Ø x 298
Finish	satin nickel
Weight	appx. 195 g

Microphone Head ME 88

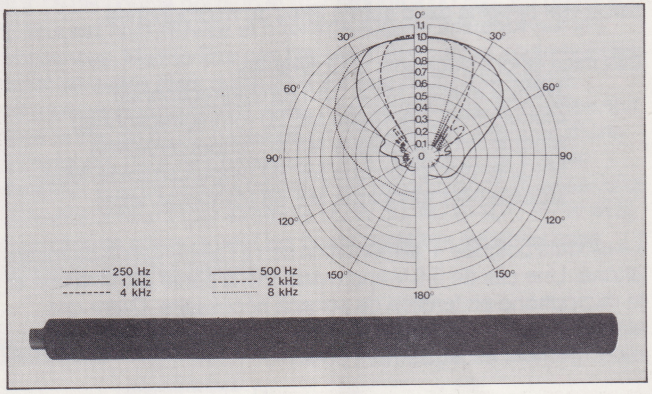
This microphone head has an extremely high directionality. Due to interference principle, a club shaped characteristic is achieved. Therefore the ME 88 is always suitable for situations where the mike can't be brought as close as possible to the sound source. The ME 88 preferably picks up direct sound. Indirect sound and environmental sounds are reduced much more than with microphones with cardioid characteristic, even at larger recording distances.
A fixed windscreen effectively suppresses windnoise.

Features:

Extremely high directionality.

Applications:

Animal recording, reportages, sports
(see Fig. 2).



Technical Data

	ME 88 and K 30 AV
Frequency response	50 . . . 15 000 Hz
Acoustical mode of operation	interference transducer
Directional characteristic	cardioid / club shaped
Sensitivity at 1 kHz	8 mV/Pa ≙ 0.8 mV/µbar ± 2.5 dB
Impedance	appx. 600 Ω
Minimum load impedance	600 Ω
Weighted S/N ratio to DIN 45 590	> 70 dB
Connector	8 pin plug, screwable, to DIN 45 326
Wiring	1 → audio, 2 → housing (–), 8 → external power supply to DIN 45 594
Cable connector	8 pin coupling, screwable, to DIN 45 326
Power supply	+ 4 V . . . + 15 V via pin 8 or 5.6 V battery
Dimensions in mm	19/40 Ø x 688
Finish	satin nickel and aluminium black anodised
Weight	appx. 135 g

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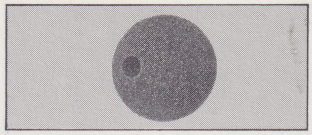
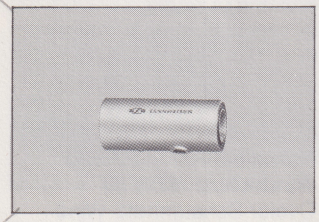


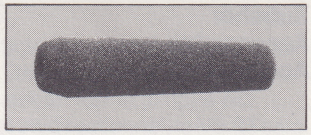
Nahbesprechungs- und Windschutz MZW 201
Schaumnetz-Windschutz passend für ME 20 und ME 40. Bewirkt im Vergleich zum MZW 30 bessere Winddämpfung. Durchmesser: 80 mm.
Windscreen and Pop Filter MZW 201
Sponge windscreen for electret-condenser-microphone heads ME 20 and ME 40. Its larger diameter of 80 mm makes this windscreen more effective than the MZW 30.
Bonnette de proximité et anti-vent MZW 201
En mousse acoustique spéciale. Pour les microphones électrostatiques à électret ME 20 et ME 40. Les bruits de vent sont mieux atténués qu'avec le MZW 30. Diamètre: 80 mm.



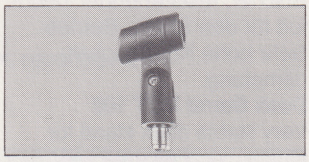
Federhalterung MZS 415
Vermeidet Aufnahmestörungen durch Trittschall und Bodenschwingungen.

Shock Mount MZS 415
Prevents impact sound from impairing recording quality.

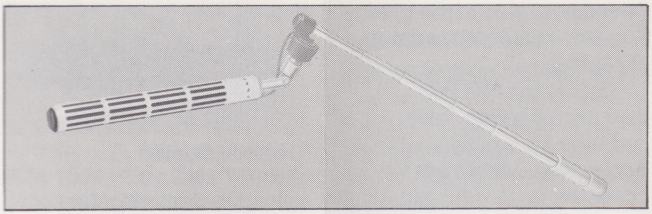
Fixation sur ressort MZS 415
La fixation-micro intérieure du MZS 415 est, par rapport au boîtier extérieur, oscillante et évite ainsi les perturbations d'enregistrement dûes aux bruits de pas et aux vibrations du plancher.



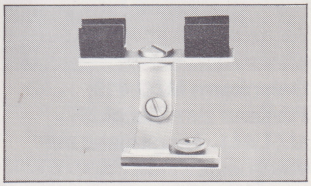
Nahbesprechungs- und Windschutz MZW 415
Schaumnetz-Windschutz für ME 80.
Windscreen and Pop Filter MZW 415
Sponge windscreen for microphone head ME 80.
Bonnette de proximité et anti-vent MZW 415
Pour le module microphonique ME 80.



Schnellwechselklemme MZQ 100
Universelle Schnellwechselklemme mit elastischer Klammer für Mikrofone mit einem Schaftdurchmesser von 19 – 23 mm. Ein Wechselgewinde im Sockel ermöglicht Montage auf Stativen mit $^3/_8$", $^1/_2$" und $^5/_8$" x 27 G-Gewinde.
Quick release clamp MZQ 100
Universal quick release clamp suitable for microphones with a diameter of 19 – 23 mm. A changeable thread enables the clamp to be mounted on floor stands with threads from $^3/_8$" to $^1/_2$" and $^5/_8$" x 27 G.
Pince de fixation rapide MZQ 100
Pince de fixation rapide universelle avec une agrafe élastique pour des microphones avec un diamètre de la poignée de 19 à 23 mm. Une pièce spéciale dans le socle permet le montage sur les pieds de microphone avec un filetage de $^3/_8$", $^1/_2$" et $^5/_8$" x 27 G.



Spezial-Teleskop MZS 802
Für die Sennheiser-Elektret-Kondensator-Mikrofone in Modultechnik. Das Doppelteleskop kann von etwa 23 cm bis auf ca. 68 cm ausgezogen werden. Es verbindet die Mikrofonmoduln ME 20, 40 und 80 mit dem Speiseteil K 30 AV. Die erreichte Gesamtlänge beträgt z. B. für ME 80 + K 30 AV etwa 1 Meter. Gute Körperschalldämmung durch Schwinggummi-Entkopplung am oberen Teleskop-Ende. Der Mikrofonkopf kann rastbar in drei Gebrauchs- und eine Transportposition gebracht werden. Gewicht: ca. 140 g.
Special Telescope MZS 802
For the Sennheiser electret condenser microphone modular system. The double telescopic rod of normally appx. 23 cm length can be extended to appx. 68 cm. It links the microphone heads ME 20, 40 and 80 with the handgrip/powering module K 30 AV. The total length for e.g. ME 80 + K 30 AV would be appx. 1 m.
Shock damping is accomplished through use of a rubber-damper at the tip of the telescope. Clickstop swivel positions are provided, three for operation and one for transport. Weight: appx. 140 g.
Perche téléscopique spéciale MZS 802
Pour les micros modulaires à électret Sennheiser. La longueur du double téléscope peut être choisie entre 23 et 68 cm. La perche relie les éléments micro ME 20, 40, 80 à l'alimentation K 30 AV. La longueur maximale atteinte est d'environ 1 m, pour le ME 80 + K 30 AV, par exemple. Les bruits parasites d'origine mécanique sont atténués par un élément amortisseur situé à l'extrêmité supérieure de la perche. L'articulation permet trois positions de travail et une position de transport.
Poids: env. 140 g.

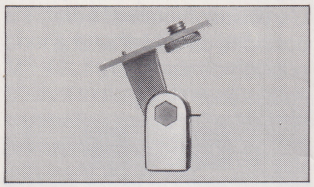


Kamera-Mikrofon-Halterung MZG 802
Dient zur Montage von Mikrofonen an Kameras, wenn diese mit einem $^1/_4$"-Innengewinde versehen sind. Nach Lösen der zwischen den beiden Klemmstücken für den Mikrofongriff liegenden Schraube kann die Klemmhalterung arretierbar um 90° gedreht wieder befestigt werden und bildet sodann einen kleinen seitlichen Ausleger. Damit können Mikrofone auch an Kameras angebracht werden, bei denen das Gewinde z. B. hinter dem Griff ist.
Camera-Microphone Mount MZG 802
For attaching microphones to cameras equipped with $^1/_4$" thread. Two clamps are mounted on a bar which can be turned to an angle of 90° degrees and locked into position. This feature permits the attachment of the MZG 802 to cameras with the accessory

thread e. g. behind the grip.

Fixation-micro pour caméras MZG 802

L'articulation MZG 802 pour fixer microphones à des caméras à taraudage $^1/_4$". Après avoir desserré la vis située entre les deux éléments de serrage, cette partie peut être tournée à 90° et fixée dans cette position. Resserrer la vis. De cette façon, il est possible de fixer les microphones à des caméras dont le taraudage se trouve derrière la poignée.



Gelenkarm MZG 415

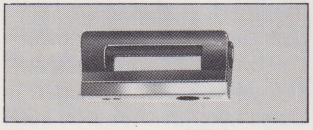
Passend zum Tischfuß MZT 441. Ausgerüstet mit Wechselgewinde ($^3/_8$", $^1/_2$" und $^5/_8$" x 27 G).

Swivel Adapter MZG 415

Fits the desk stand MZT 441. Equipped with changeable thread ($^3/_8$", $^1/_2$" and $^5/_8$" x 27 G).

Pièce articulée MZG 415

Pour pied de table MZT 441. Equipé avec filetage modifiable ($^3/_8$", $^1/_2$" et $^5/_8$" x 27 G).



Klemmhalterung MZQ 415

Passend zum MZG 415. Nimmt Mikrofone bis zu einem Schaftdurchmesser von 19 mm auf.

Clamp MZQ 415

Suitable for MZG 415. Takes microphones with a max. shaft diameter of 19 mm.

Pince de fixation MZQ 415

Destinée au MZG 415. S'adapte à des microphones de 19 mm Ø de tige au maximum.

Speiseadapter
MS 10 T / MS 10 P

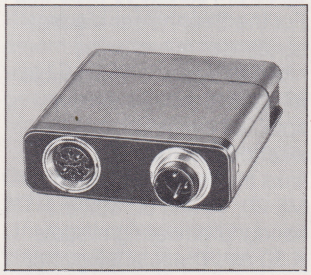
Ermöglicht Speisung des K 30 AV aus Phantom-Speisungsnetzen. Beide Adapter sind mit 3pol. DIN-, XLR- oder Lemo-Steckverbindern erhältlich.

Powering Adapter
MS 10 T / MS 10 P

Allows the K 30 AV to be powered either from phantom supply mains or AB-supply. Both adapters are available with 3-pin DIN, XLR or lemo connectors.

Raccord d'alimentation
MS 10 T / MS 10 P

Destiné à alimenter le K 30 AV par circuit fantôme ou par circuit AB. Tous les deux adapteurs sont en vente avec des raccords à fiche à 3 pôles DIN, XLR ou lemo.



Batterieadapter · Battery Adapter Raccord de pile

MZA 10

Batterieadapter zum Anschluß an unsymmetrische mittelohmige Eingänge. 3pol. DIN-Anschlußstecker.

MZA 10

Battery adapter for connection to unbalanced medium-impedance inputs. 3-pin DIN-connector.

MZA 10

Adaptateur de batterie pour le raccordement à des entrées asymétriques à impédance moyenne. Connecteur tripolaire DIN.

MZA 10 N

Batterieadapter zum Anschluß an symmetrische niederohmige Eingänge. Der Ausgangspegel entspricht dem dynamischer Mikrofone. 3pol. DIN-Anschlußstecker.

MZA 10 N

Battery adapter for connection to balanced low-impedance inputs. The output level corresponds to the output level of dynamic microphones. 3-pin DIN-connector.

MZA 10 N

Adaptateur de batterie pour le raccordement à des entrées symétriques à basse impédance. Le niveau de sortie correspond à celui des micros dynamiques. Connecteur tripolaire DIN.

MZA 10-U

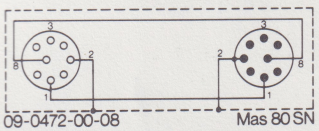
Batterieadapter zum Anschluß an symmetrische niederohmige Eingänge. Der Ausgangspegel entspricht dem dynamischer Mikrofone. 3pol. Cannon-Anschlußstecker.

MZA 10-U

Battery adapter for connection to balanced low-impedance inputs. The output level corresponds to the output level of dynamic microphones. 3-pin DIN-connector.

MZA 10-U

Adaptateur de batterie pour le raccordement à des entrées symétriques à impédance moyenne. Le niveau de sortie correspond à celui des micros dynamiques. Connecteur tripolaire Cannon.



Anschlußkabel MZK 30 AV

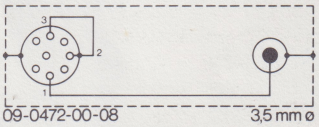
Anschlußkabel für K 30 AV zum Anschluß an Videokameras mit 8poliger Eingangsbuchse. Geräteseitig ist das Kabel mit einem 8poligen Stecker ausgerüstet. Kontaktanordnung und Steckerbeschaltung entspricht DIN 45326. Das Wendelkabel kann bis auf 1 m auseinandergezogen werden.

Connecting Cable MZK 30 AV

Connecting cable for connection of K 30 AV to video-cameras with 8-pin input socket. The spiral cable can be extended up to 1 m.

Cordon de raccordement MZK 30 AV

Cordon pour K 30 AV, pour raccordement aux caméras vidéo avec douille d'entrée à 8 pôles. A l'extrêmité côté caméra le câble est équipé d'une fiche à 8 pôles. La disposition des contacts et la commutation des prises sont conformes à DIN 45326. Le cordon-spirale peut être tendu jusqu'à 1 m de longueur.



Anschlußkabel MZK 802

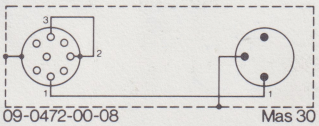
Geräteseitig mit 3,5-mm-Klinkenstecker ausgerüstet. Sonst wie MZK 30 AV.

Connecting Cable MZK 802

With 3.5 mm jack plug. Otherwise like MZK 30 AV.

Cordon de raccordement MZK 802

Avec douille de Jack de 3,5 mm, d'autres manières comme MZK 30 AV.



Anschlußkabel MZK 802-1

Geräteseitig mit 3pol. Stecker (z. B. Mas 30). Sonst wie MZK 30 AV.

Connecting cable MZK 802-1

With 3-pin plug (e. g. Mas 30). Otherwise like MZK 30 AV.

Câble de raccordement MZK 802-1

Avec connecteur tripolaire côté appareil (p. ex. Mas 30), d'autres manières comme MZK 30 AV.

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